

3 **ABSTRACT**

4 An application development platform enables applications to be
5 created easily for, e.g., mobile devices that have short-range
6 wireless communication capability. The development platform
7 exposes a carefully chosen core set of services through an API.
8 Each of the applications can broadcast its services to local and
9 remote devices. Message delivery between devices is guaranteed
10 even for messages that cannot be delivered directly by local short-
11 range wireless transmission. Message delivery through other
12 channels, including the Internet, can occur transparently to the
13 user. Each device can be associated with an "owner", which can be
14 a person or a entity. Services can be customized to the owner based
15 on stored information that maps owners to devices. Information
16 associated with each of the owners of devices can be stored
17 centrally and used in connection with providing the services at
18 each of the mobile devices. Virtual GPS capabilities can be
19 provided for mobile devices that do not have GPS chips.

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